

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------------------|---------|---------------------|
| L1 | 2 | "US 20070082456" | US-PGPUB; USPAT; USOCR; DERWENT | ADJ | ON | 2008/05/28 20:09 |
| S1 | 8036 | (Polish\$4 Same (Metal Or Metal film Or Film)) And \$12Phosphate | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/03 20:15 |
| S2 | 1519 | S1 And(Metal Same Etch\$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/03 20:18 |
| S3 | 1519 | S2 and Etch\$4 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/03 20:19 |
| S4 | 1622 | (Polish\$4 Or Polish\$4 Composition) and (Phosphate ester Or polyoxyethylene alkyl ether phosphate Or polyoxyethylene aryl ether phosphate Or octyl phosphate Or decyl phosphate Or lauryl phosphate) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/03 21:07 |
| S5 | 416 | (Polish\$4 Or Polish\$4 Composition) and (myristyl phosphate Or cetyl phosphate Or stearyl phosphate Or secondary alkyl phosphate Or 2- ethylhexyl phosphate Or oleyl phosphate Or monostearyl Or glyceryl ether phosphate Or monocetyl glyceryl ether phosphate Or monooleyl glyceryl ether phosphate Or isostearyl glyceryl ether phosphate) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/03 21:08 |
| S6 | 5680 | (Polish\$4 Or Polish\$4 Composition) and (polyoxyethylene octyl ether phosphate Or polyoxyethylene decyl ether phosphate Or polyoxyethylene lauryl phosphate Or polyoxyethylene Or myristyl ether phosphate Or polyoxyethylene cetyl ether phosphate) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/03 21:09 |
| S7 | 12 | (Polish\$4 Or Polish\$4 Composition) and (polyoxyethylene stearyl ether phosphate Or polyoxyethylene \$3ethylhexyl ether phosphate Or polyoxyethylene \$3oleyl ether phosphate Or polyoxyethylene nonylphenyl ether phosphate) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/03 21:13 |
| S8 | 5940 | S5 Or S6 Or S7 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/05 18:41 |

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| S9 | 1114 | S8 and Etch\$4 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/03 21:16 |
| S10 | 4863 | S8 and (sulfuric acid Or phosphoric acid Or phosphonic acid Or nitric acid Or carboxylic acid Or formic acid Or acetic acid Or propionic acid Or butyric acid Or valeric acid Or 2-methylbutyric acid Or n-hexanoic acid Or 3,3- dimethylbutyric acid Or 2-ethylbutyric acid Or 4-methylpentanoic acid Or n-heptanoic acid Or 2-methylhexanoic acid or n-octanoic acid or 2-ethylhexanoic acid Or benzoic acid Or glycolic acid Or hydroxyacetic acid Or salicylic acid Or glyceric acid Or oxalic acid Or malonic acid Or succinic acid Or glutaric acid Or adipic acid Or pimelic acid Or maleic acid Or phthalic acid or malic acid or tartaric acid or citric acid or lactic acid or nicotinic acid Or quinaldinic acid Or anthranilic acid) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/03 21:22 |
| S11 | 4384 | S10 And (Ammonia Or sodium hydroxide Or potassium hydroxide Or potassium carbonate Or potassium hydrogencarbonate Or ammonium hydrogencarbonate Or alkylmonoamine Or methylamine Or ethylamine Or propylamine Or isopropylamine Or butylamine Or isobutylamine Or t-butylamine Or amylamine Or allylamine Or 2-ethylhexylamine Or cyclohexylamine Or benzylamine Or furfurylamine Or o-aminophenol Or ethanolamine Or 3-amino-1-propanol Or 2- amino-1-propanol Or diamine Or ethylenediamine Or diethylenetriamine, triethylenetetramine Or tetraethylenepentamine Or pentaethylenehexamine Or o-phenylenediamine Or trimethylenediamine Or 1,2-diaminopropane Or 2,2-diamino-di-n-propylamine Or 2-methyl-2- (2-benzylthioethyl)ethylenediamine Or 1,5-diamino-3-pentanol Or 1,3-diamino-2-propanol Or xylenediamine Or bisaminopropylpolyalkylene ether Or polyallylamine Or polyethyleneimine) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/03 21:35 |
| S12 | 3072 | S11 And (Oxygen Or hydrogen peroxide Or ozone Or alkyl peroxide Or \$11peroxide Or peracid Or permanganate salt\$1 Or "S10" permanganate Or persulfate salt Or \$10persulfate Or polyoxo acid Or hypochlorite salt\$4 Or \$10hypochlorite Or periodate salt\$1 Or \$10periodate) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/03 21:40 |

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| S13 | 1335 | S12 And (anionic surfactant\$1 Or cationic surfactant\$1 Or nonionic surfactant\$1 Or ampholytic surfactant \$1) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 15:06 |
| S14 | 1036 | S13 And (alkylaromatic-sulfonic acid or \$12sulfonate Or (Salt Near5 Sulfon\$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/03 21:44 |
| S15 | 416 | (Polish\$4 Or Polish\$4 Composition) and (myristyl phosphate Or cetyl phosphate Or stearyl phosphate Or secondary alkyl phosphate Or 2- ethylhexyl phosphate Or oleyl phosphate Or monostearyl Or glyceryl ether phosphate Or monocetyl glyceryl ether phosphate Or monooleyl glyceryl ether phosphate Or isostearyl glyceryl ether phosphate) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 15:13 |
| S16 | 5682 | (Polish\$4 Or Polish\$4 Composition) and (polyoxyethylene octyl ether phosphate Or polyoxyethylene decyl ether phosphate Or polyoxyethylene lauryl phosphate Or polyoxyethylene Or myristyl ether phosphate Or polyoxyethylene cetyl ether phosphate) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 15:13 |
| S17 | 12 | (Polish\$4 Or Polish\$4 Composition) and (polyoxyethylene stearyl ether phosphate Or polyoxyethylene \$3ethylhexyl ether phosphate Or polyoxyethylene \$3oleyl ether phosphate Or polyoxyethylene nonylphenyl ether phosphate) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 15:13 |
| S18 | 5942 | S15 Or S16 Or S17 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 15:13 |
| S19 | 4865 | S18 and (sulfuric acid Or phosphoric acid Or phosphonic acid Or nitric acid Or carboxylic acid Or formic acid Or acetic acid Or propionic acid Or butyric acid Or valeric acid Or 2-methylbutyric acid Or n-hexanoic acid Or 3,3- dimethylbutyric acid Or 2-ethylbutyric acid Or 4-methylpentanoic acid Or n-heptanoic acid Or 2-methylhexanoic acid or n-octanoic acid or 2-ethylhexanoic acid Or benzoic acid Or glycolic acid Or hydroxyacetic acid Or salicylic acid Or glyceric acid Or oxalic acid Or malonic acid Or succinic acid Or glutaric acid Or adipic acid Or pimelic acid Or maleic acid Or phthalic acid or malic acid or tartaric acid or citric acid or lactic acid or nicotinic acid Or quinaldinic acid Or anthranilic acid) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 16:30 |

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| S20 | 4386 | S19 And (Ammonia Or sodium hydroxide Or potassium hydroxide Or potassium carbonate Or potassium hydrogencarbonate Or ammonium hydrogencarbonate Or alkylmonoamine Or methylamine Or ethylamine Or propylamine Or isopropylamine Or butylamine Or isobutylamine Or t-butylamine Or amylamine Or allylamine Or 2-ethylhexylamine Or cyclohexylamine Or benzylamine Or furfurylamine Or o-aminophenol Or ethanolamine Or 3-amino-1-propanol Or 2- amino-1-propanol Or diamine Or ethylenediamine Or diethylenetriamine, triethylenetetramine Or tetraethylenepentamine Or pentaethylenehexamine Or o-phenylenediamine Or trimethylenediamine Or 1,2-diaminopropane Or 2,2-diamino-di-n-propylamine Or 2-methyl-2- (2-benzylthioethyl)ethylenediamine Or 1,5-diamino-3-pentanol Or 1,3-diamino-2-propanol Or xylenediamine Or bisaminopropylpolyalkylene ether Or polyallylamine Or polyethyleneimine) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 15:13 |
| S21 | 3072 | S20 And (Oxygen Or hydrogen peroxide Or ozone Or alkyl peroxide Or \$11peroxide Or peracid Or permanganate salt\$1 Or "S10" permanganate Or persulfate salt Or \$10persulfate Or polyoxo acid Or hypochlorite salt\$4 Or \$10hypochlorite Or periodate salt\$1 Or \$10periodate) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 15:13 |
| S22 | 1335 | S21 And (anionic surfactant\$1 Or cationic surfactant\$1 Or nonionic surfactant\$1 Or ampholytic surfactant \$1) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 15:13 |
| S23 | 1036 | S22 And (alkylaromatic-sulfonic acid or \$12sulfonate Or (Salt Near5 Sulfon\$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 15:13 |
| S24 | 349 | S23 And (azole Or benzimidazole-2-20 thiol Or 2-[2-(benzothiazolyl)] thiopropionic acid Or 2-[2-(benzothiazolyl)]thiobutyric acid Or 2-mercaptobenzothiazole Or 1,2,3-triazole Or 1,2,4-triazole Or 3- amino-1H-1,2,4-triazole Or benzotriazole or l-hydroxybenzotriazole l-dihydroxypropylbenzotriazole Or 2,3-dicarboxypropylbenzotriazole Or 4-hydroxybenzotriazole Or 4-carboxyl-1H-benzotriazole Or 4-methoxycarbonyl-1H-benzotriazole Or 4-butoxycarbonyl-1H-benzotriazole Or 4-octyloxycarbonyl-1H-benzotriazole Or 5-hexylbenzotriazole Or N-(1,2,3-benzotriazolyl-l-methyl)-N-(1,2,4-triazolyl-l-methyl)-2-ethylhexylamine Or | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 16:01 |

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| | | tolyltriazole Or naphthotriazole Or benzimidazole Or tetrazole Or hydroxybenzotriazole Or carboxybenzotriazole) | | | | |
| S25 | 291 | S24 And (silica grain\$2 Or Silica Or cerium oxide grain\$2 Or cerium oxide Or aluminum oxide grain\$2 Or aluminum oxide Or aluminum hydroxide grain\$2 Or aluminum hydroxide Or titanium dioxide grain\$2 Or titanium dioxide Or organic abrasive) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 16:12 |
| S26 | 201 | S25 And (glycine Or alanine Or 13-alanine Or 2-aminobutyric acid Or norvaline Or valine Or leucine Or norleucine Or isoleucine Or allo-isoleucine Or phenylalanine Or proline Or sarcosine Or ornithine Or lysine Or taurine Or serine Or threonine Or allo-threonine Or homoserine Or tyrosine Or 3,5-diiodo-tyrosine or 13-(3,4-dihydroxyphenyl)-alanine Or thyroxine Or 4-hydroxy-proline Or cysteine Or methionine Or ethionine Or lanthionine Or cystathionine Or cystine Or cysteic acid Or aspartic acid Or glutamic acid Or S-(carboxymethyl)-cysteine Or 4-aminobutyric acid Or asparagine Or glutamine Or azaserine Or arginine Or canavanine Or citrulline Or 5-hydroxy-lysine Or creatine Or kynurenine Or histidine Or 1-methyl-histidine Or 3-methyl-histidine Or ergothioneine Or tryptophan) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 16:19 |
| S27 | 194 | S26 and (Fatty Acid Or butyric acid Or valeric acid Or 2-methylbutyric acid Or n-hexanoic acid Or 3,3- dimethylbutyric acid Or 2-ethylbutyric acid Or 4-methylpentanoic acid Or n-heptanoic acid Or 2-methylhexanoic acid or n-octanoic acid or 2-ethylhexanoic acid Or benzoic acid Or glycolic acid Or hydroxyacetic acid Or salicylic acid Or glyceric acid Or malonic acid Or succinic acid Or glutaric acid Or adipic acid Or pimelic acid Or maleic acid Or phthalic acid or malic acid or tartaric acid or citric acid or lactic acid or nicotic acid Or quinaldinic acid Or anthranilic acid) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 16:36 |
| S28 | 184 | S27 And pH | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 16:42 |
| S30 | 145 | S28 And (Cu Or Copper) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 16:48 |

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| S31 | 184 | S28 And (Metal surface Or Copper Or surface) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 17:03 |
| S32 | 13 | S31 And Plan\$5 surface | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 17:03 |
| S33 | 0 | S31 And (phosphate Near7 Ester) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 18:28 |
| S34 | 75 | S31 And (phosphate Near7 Ester) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 18:30 |
| S35 | 48 | S31 And (phosphate Near4 Ester) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 18:30 |
| S36 | 2 | "4877411".pn. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 21:08 |
| S37 | 1 | "2007169284" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 21:10 |
| S38 | 0 | "2007169284.pn" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/04 21:10 |
| S39 | 416 | (Polish\$4 Or Polish\$4 Composition) and (myristyl phosphate Or cetyl phosphate Or stearyl phosphate Or secondary alkyl phosphate Or 2- ethylhexyl phosphate Or oleyl phosphate Or monostearyl Or glyceryl ether phosphate Or monocetyl glyceryl ether phosphate Or monooleyl glyceryl ether phosphate Or isostearyl glyceryl ether phosphate) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/05 20:11 |
| S40 | 5682 | (Polish\$4 Or Polish\$4 Composition) and (polyoxyethylene octyl ether phosphate Or polyoxyethylene decyl ether phosphate Or polyoxyethylene lauryl phosphate Or polyoxyethylene Or myristyl ether phosphate Or polyoxyethylene cetyl ether phosphate) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/05 18:41 |
| S41 | 12 | (Polish\$4 Or Polish\$4 Composition) and (polyoxyethylene stearyl ether phosphate Or polyoxyethylene \$3ethylhexyl ether phosphate Or polyoxyethylene \$3oleyl ether phosphate Or polyoxyethylene nonylphenyl ether phosphate) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/05 18:41 |

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| S42 | 5942 | S39 Or S40 Or S41 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/05 18:42 |
| S43 | 2 | S42 And (azole Near5 Polymer) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/05 18:43 |
| S44 | 12 | S42 And (azole Same Polymer) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/05 18:43 |
| S45 | 754 | S42 And (Layer Same (Tatalum Or Tantalum Alloy Or Tantalum nitride Or Titanium Or Titanum Alloy)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/05 19:47 |
| S46 | 2 | S45 And (Metal film same barrier Layer Same wiring layer) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/05 19:45 |
| S47 | 5 | S45 And Metal film And barrier Layer And wiring layer | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/05 19:46 |
| S48 | 53 | S45 And Kit | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/05 19:47 |
| S49 | 5 | S48 And (Transport\$4 Same Storage) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/05 19:50 |
| S50 | 292 | S39 and Fatty acid | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/05 20:11 |
| S51 | 132 | ((ITOH-YUJI\$)\$).in. Or "(NISHIOKA- AYAKO\$).in. Or (UOTANI-NOBUO\$).in. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/12/06 16:40 |
| S52 | 2 | "6299795".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/05/26 22:30 |
| S53 | 36 | ((YUJI) near2 (ITOH)).INV. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/05/26 22:48 |
| S54 | 15 | ((AYAKO) near2 (NISHIOKA)).INV. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/05/26 22:49 |
| S55 | 30 | ((NOBUO) near2 (UOTANI)).INV. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/05/26 22:49 |
| S56 | 73 | S53 Or S54 Or S55 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/05/26 22:49 |

5/28/2008 8:19:11 PM

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